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Owner's manual & Installation manual
Mode d'emploi et manuel d'installation
Manual de instrucciones y de instalación

CZ500

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Bluetooth® CD/USB/MP3/WMA RECEIVER
LECTEUR CD/USB/MP3/WMA Bluetooth®
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Registrese en **www.clarion.com** - es fácil mantener su producto de Clarion actualizado.

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Contents

Thank you for purchasing this Clarion product.
- Please fully read this owner's manual before operating this equipment.
- Check the contents of the enclosed warranty card and store it in a safe place with this manual.

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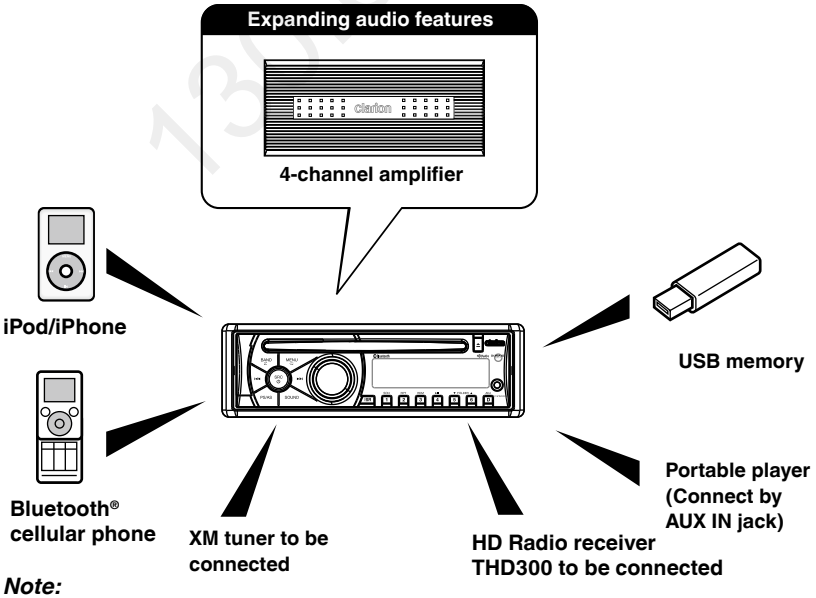
1. FEATURES

- HD Radio™ and XM Radio Ready
- Compatible with iPod®/iPhone™ via USB
- 6ch/4V RCA Output with Subwoofer Control and BEAT-EQ with 3 Band Parametric Equalizer
- MP3/WMA compatible with ID3-TAG display
- Built in Bluetooth handsfree (HFP) and audio streaming (A2DP & AVRCP)
- Rear USB
- IR remote controller included
- OEM Steering Wheel Remote Ready

Expanding Systems



Note:
Items outside of the frames are commercially available.

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2. PRECAUTIONS

⚠ WARNING

For your safety, the driver should not operate the controls while driving.
Also, while driving, keep the volume to a level at which external sounds can be heard.

1. When the inside of the car is very cold and the player is used soon after switching on the heater, moisture may form on the disc or the optical parts of the player and proper playback may not be possible. If moisture forms on the disc, wipe it off with a soft cloth. If moisture forms on the optical parts of the player, do not use the player for about one hour. The condensation will disappear naturally allowing normal operation.

2. Vibrations resulting from driving on bumpy roads may cause the sound to skip.

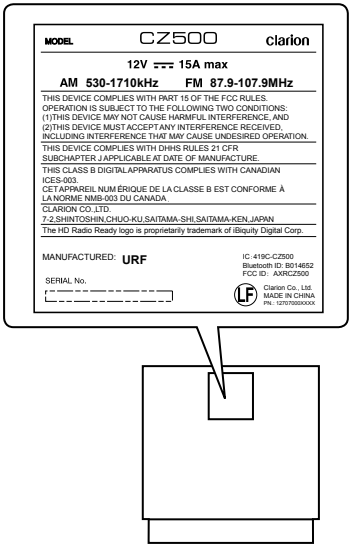
3. This unit uses a precision mechanism. Even in the event that trouble arises, never open the case, disassemble the unit, or lubricate the rotating parts.

4. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.
   These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to consult the dealer or an experienced radio/TV technician for help.

5. “Made for iPod” means that an electronic accessory has been designed to connect specifically to iPod and has been certified by the developer to meet Apple performance standards.
   “Works with iPhone” means that an electronic accessory has been designed to connect specifically to iPhone and has been certified by the developer to meet Apple performance standards.
   Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.
   iPod and iTunes® are trademarks of Apple Inc., registered in the U.S. and other countries.
   iPhone is a trademark of Apple Inc.

6. ©2009 SIRIUS XM Radio Inc., SIRIUS, XM and all related marks and logos are trademarks of SIRIUS XM Radio Inc. and its subsidiaries.
   All other marks, channel names and logos are the property of their respective owners.

7. HD Radio™ and the HD Radio Ready logo are proprietary trademarks of iBiquity Digital Corporation.


MODEL
CZ500
clarion
12V ⎓ 15A max
AM 530-1710kHz FM 87.9-107.9MHz
THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES.
OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:
(1)THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND
(2)THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED,
INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.
THIS DEVICE COMPLIES WITH DHHS RULES 21 CFR
SUBCHAPTER J APPLICABLE AT DATE OF MANUFACTURE.
THIS CLASS B DIGITAL APPARATUS COMPLIES WITH CANADIAN
ICES-003.
CET APPAREIL NUM ÉRIQUE DE LA CLASSE B EST CONFORME À
LA NORME NMB-003 DU CANADA
CLARION CO.,LTD.
7-2,SHINTOSHIN,CHUO-KU,SAITAMA-SHI,SAITAMA-KEN,JAPAN
The HD Radio Ready logo is proprietarily trademark of iBiquity Digital Corp.
MANUFACTURED: URF
IC: 419C-CZ500
Bluetooth ID: B014652
FCC ID: AXRCZ500
SERIAL No.
Clarion Co., Ltd.
MADE IN CHINA
PN.: 127070090XX

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Front Panel

For a longer service life, be sure to read the following cautions.

- Do not allow any liquids on the set. Doing so may damage the internal circuitry.
- Do not disassemble or modify the set in any way. Doing so may result in damage.
- Do not let cigarettes burn the display. Doing so may damage or deform the body.
- If a problem should occur, have the set inspected at your store of purchase.
- The remote control unit may not work if the remote control sensor is exposed to direct sunlight.

Cleaning the body

- Use a soft, dry cloth and gently wipe off the dirt.
- For tough dirt, apply some neutral detergent diluted in water to a soft cloth, wipe off the dirt gently, then wipe again with a dry cloth.
- Do not use benzene, thinner, car cleaner, etc., as these substances may damage the body or cause the paint to peel. Also, leaving rubber or plastic products in contact with the body for long periods of time may cause stains.

USB Port

- When a USB memory stick is used, it may stick out presenting the possibility of injury. Use a USB extension cable to prevent this hazard.
- The USB memory sticks must be recognized as “USB mass storage class” to work properly. Some models may not operate correctly.
  Clarion will not be held liable in the unlikely event of loss of or damage to memorized data.
  When using an USB memory stick, we recommend that you backup your data on a personal computer.
- Data files may be lost or become corrupted when using USB memory sticks in the following situations: When the USB memory stick is disconnected or the power is turned off during data read or write.
  When affected by static electricity or electric noise.
  When the USB memory stick is connected or disconnected while the contents are being accessed.
- Some USB memory sticks cannot be inserted to the main unit because of their shape. In such cases, use a commercial USB extension cable to connect them.
- Connection to a computer is not supported.
- Music files (MP3, WMA, etc.) stored in the USB memory stick cannot be played back.

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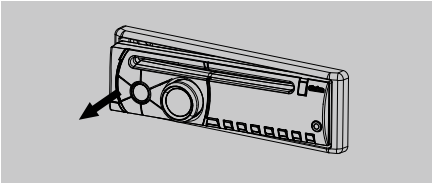
Remove the DCP

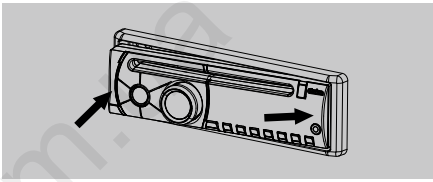
The control panel can be detached to prevent theft. When detaching the control panel, store it in the DCP (DETACHABLE CONTROL PANEL) case to prevent scratches.
We recommend taking the DCP with you when leaving the car.

1. Press the [⏻] button (2 sec.) to turn off the power.
2. Depress the [**OPEN**] button to unlock the DCP.
3. Grab the edge that pops out and remove the DCP.



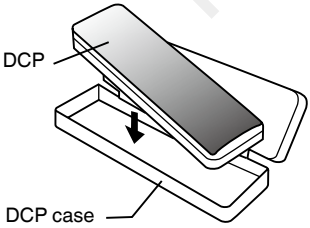
Re-attach the DCP

1. Hold the DCP and ensure that the panel faces towards you. Set the right side of the DCP into the DCP bracket.
2. Press the left side of the DCP until it locks.



Storing the DCP in the DCP Case

Hold the DCP, in the orientation as shown in the figure below, and put it into the supplied DCP case. (Ensure the DCP is in the correct orientation.)



Note:
If the DCP is dirty, wipe off the dirt with a soft, dry cloth only.

⚠ CAUTION

- The DCP can easily be damaged by shocks. After removing it, be carefully not to drop it or subject it to strong shocks.
- The connector connecting the source unit and the DCP is an extremely important part. Be careful not to damage it by pressing on it with fingernails, screwdrivers, or other hard objects.

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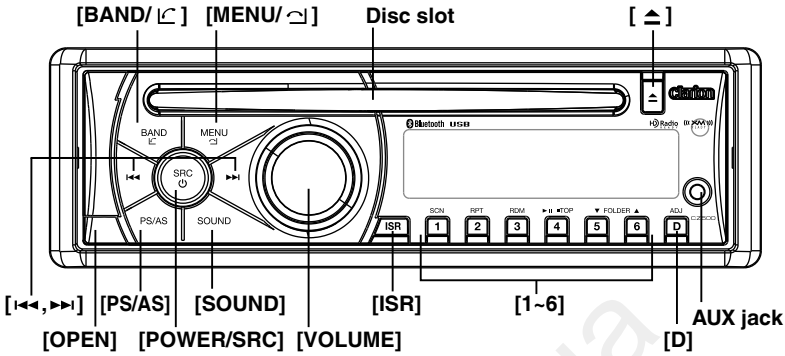
3. CONTROLS

Operational Panel



Names of Buttons

[/ SRC] button
- Power/Toggle the audio source

[BAND /] button
- Select tuner band/Dial/Answer

[MENU /] button
- System menu/Terminate call

[▲] button
- Eject the disc in the unit.

[,] button
- Previous (Next)/Search

[OPEN] button
- Unlock the front panel.

[PS / AS] button
- Preset scan/Auto memory store

[SOUND] button
- Sound effect setting

[VOLUME] knob
- Adjust volume level/Confirm

[ISR] button
- Recall ISR station stored in memory and store current station in ISR memory (long press)
- iTunes Tagging (when connected with HD Radio module)

[1–6] button
- [1] button: Scan play/Preset station 1.
- [2] button: Repeat play/Preset station 2.
- [3] button: Random play/Preset station 3.
- [4] button: Play/Pause/Top play (long press)/Preset station 4.
- [5] button: Previous folder/Preset station 5. 10 tracks down (long press)
- [6] button: Next folder/Preset station 6. 10 tracks up (long press)

[D] button
- Display switch/System menu

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Remote Control

[POWER/SRC] button
- Power/Toggle the audio source

[⏮ , ⏭] button
- Previous (Next)/Search

[MUTE] button
- Mute audio output

[SCN/PS/AS] button
- Scan play/Preset scan/Auto memory store

[BND/TOP] button
- Select tuner band/Top play

[▲ , ▼] button
- Volume up/down

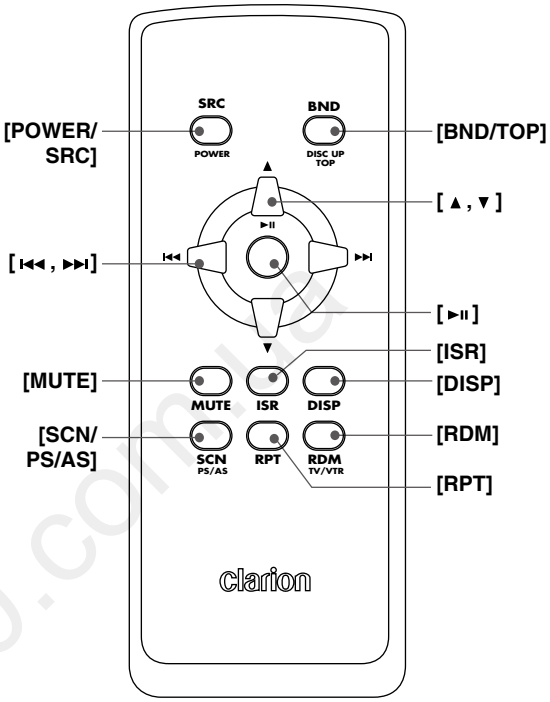
[▶II] button
- Play/Pause

[ISR] button
- Recall ISR station stored in memory (short press) and store current station in ISR memory (long press)
- iTunes Tagging (when connected with HD Radio module)

[DISP] button
- Display switch

[RDM] button
- Random play

[RPT] button
- Repeat play

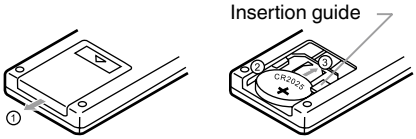


Using the Remote Control

1. Aim the remote control at the remote sensor on the unit.
2. Remove the battery from the remote control or insert a battery insulator if the battery has not been used for a month or longer.
3. DO NOT store the remote control under direct sunlight or in high temperature environment, or it may not function properly.
4. Use button shaped lithium battery CR2025 (3 V) only.
5. DO NOT recharge, disassemble, heat or expose the battery to fire.
6. Insert the battery in proper direction according to the (+) and (-) poles.
7. Store the battery in a place where children cannot reach to avoid the risk of accident.

Inserting the battery

1. Slide remote control unit's rear cover in the direction shown.
2. Insert battery (CR2025) into insertion guides with printed side (+) up.
3. Press battery into compartment as shown.
4. Replace and slide cover until it clicks into place.



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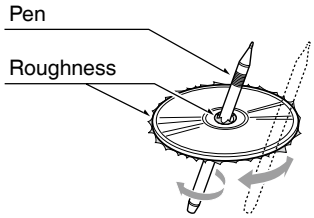
4. CAUTIONS ON HANDLING

Handling Discs

Handling

- New discs may have some roughness around the edges. If such discs are used, the player may not work or the sound may skip. Use a pen or similar tool to remove any roughness from the edge of the disc.



- Never stick labels on the surface of the disc or mark the surface with a pencil or pen.
- Never play a disc with any cellophane tape or other glue on it or with peeling off marks. If you try to play such a disc, you may not be able to get it back out of the player or it may damage the player.
- Do not use discs that have large scratches, are misshapen, cracked, etc. Use of such discs may cause misoperation or damage.
- To remove a disc from its storage case, press down on the center of the case and lift the disc out, holding it carefully by the edges.
- Do not use commercially available disc protection sheets or discs equipped with stabilizers, etc. These may damage the disc or cause breakdown of the internal mechanism.

Storage

- Do not expose discs to direct sunlight or any heat source.
- Do not expose discs to excess humidity or dust.
- Do not expose discs to direct heat from heaters.

Cleaning

- To remove fingermarks and dust, use a soft cloth and wipe in a straight line from the center of the disc to the outer edge.
- Do not use any solvents, such as commercially available cleaners, anti-static spray, or thinner to clean discs.
- After using special disc cleaner, let the disc dry off well before playing it.

On discs

- Exercise a good precaution when loading a disc. The operation panel will close automatically when leaving it open for a while.
- Never turn off the power and remove the unit from the car with a disc loaded.

⚠ CAUTION

For your safety, the driver should not insert or eject a disc, opening the operation panel while driving.

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5. OPERATIONS

Basic Operations

Note:
Be sure to read this chapter referring to the chapter “3. CONTROLS.”

⚠ CAUTION

Before turning off the unit, return the volume to a lower level. Restarting playback with the volume at maximum increases the possibility of damage to the speakers or your hearing.

Power on/off

Notes:

- Start the engine before using this unit.
- Be careful about using this unit for a long time without running the engine. If you drain the car’s battery too far, you may not be able to start the engine and this can reduce the service life of the battery.

1. Start the engine. The power button will light up.

Engine ON position

2. Press the [⏻] button on the front panel or [**POWER**] button on the remote control to turn on the power while in standby mode. The unit goes back to the last status after power on.
3. Press and hold the [⏻] button on the front panel or press the [**POWER**] button on the remote control to turn off the power while in work mode.

Mute

Press the [**MUTE**] button on the remote control to mute the volume from the unit.

Note:
Pressing the [**MUTE**] button again or adjusting volume will release muting.

Volume adjustment

Turn the [**VOLUME**] knob on the front panel or press the [▲ , ▼] button on the remote control.
The adjustable range of volume is 0 to 40.

⚠ CAUTION

While driving, keep the volume level at which external sounds can be heard.

Playing source selection

Press the [**SRC**] button on the front panel or the remote control repeatedly to choose desired playing source.

Notes:

1. Playing source selection means selecting work mode, such as DISC mode, Radio mode, Aux mode, etc.
2. When some devices are not ready, they cannot be selected.

Display system time

Press the [**D**] button on the front panel or [**DISP**] button on the remote control to switch the display information, system time and playing source.

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Radio Operations

Select tuner as playing source
Press the [**SRC**] button once or more to enter radio mode.

Select one radio band
Press the [**BAND**] button on the panel or [**BND**] button on the remote control to select one radio band among FM1, FM2, FM3, AM.

Manual tuning
During manual tuning, the frequency will be changed in steps.
Press the [▶▶I] / [I◀◀] button on the front panel or the remote control to tune in a higher/ lower station.

Auto tuning
Press and hold the [▶▶I] / [I◀◀] button on the front panel or the remote control to seek a higher/lower station.
To stop searching, repeat the operation above or press other buttons having radio functions.

Note:
When a station is received, searching stops and the station is played.
If the unit receives a stereo broadcast, the indicator light of stereo 'ST' on the LCD display lights.

Auto store
Only stations with sufficient signal strength will be detected and stored in the memory.
Press and hold the [**PS/AS**] (2 sec.) button to start automatic station search.
To stop auto store, press other buttons having radio functions.

Note:
1. After auto store, the previous stored stations will be overwritten.
2. The unit has four bands: FM1, FM2, FM3 and AM. FM3 and AM can store by AS function. Each bands can store six stations, CZ500 can store 24 stations in total.

Manual store
While tuned into a desired radio station, press and hold number button 1–6 to store it in the memory.

Recall the stored stations
Press one numeric button among 1 to 6 on the panel or the remote control to select the corresponding stored station.

Local seeking
When LOCAL seeking is on, only those radio stations with strong radio signal can be received.
Press and hold the [**D**] button on the front panel, then press the [▶▶I] button repeatedly until LO or DX displays on the screen, and rotate the knob to select Local or Distant mode.

Note:
The number of radio stations that can be received will decrease after the local seeking mode is on.

Preset scan
Preset scan receives the stations stored in preset memory in order. This function is useful when searching for a desired station in memory.
1. Press the [**PS/AS**] button.
2. When a desired station is tuned in, press the [**PS/AS**] button again to continue receiving that station.

Note:
Be careful not to press and hold the [**PS/AS**] button for two seconds or longer, otherwise the auto store function is engaged and the unit starts storing stations.

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Satellite Radio Mode

Listeners can subscribe to XM® Radio on the Web by visiting www.xmradio.com, or by calling (800) 967-2346. Customers should have their Radio ID ready (see "Displaying the Identification (ID) Code"). Customers can receive a limited number of free-to-air channels without activation.
Listeners can subscribe to Sirius® Radio on the Web by visiting www.sirius.com, or by calling (888) 539-SIRIUS. Customers should have their Sirius ID ready (Sirius ID is located on the Satellite Radio Tuner, sold separately). Customers can listen to music samples by tuning to channel 184.

Accessing satellite radio mode

Press the [**SRC**] button on the front panel or the remote control to switch to the SAT source.

Displaying the Identification (ID) Code

Before you listen to satellite radio, you must subscribe to the service using your radio's identification number. To display the radio ID, use the [**I◀◀**] tuning button to tune to channel "000". The screen displays the radio ID where the channel name is usually displayed.

Check XM tuner

If XM tuner is not connected, "XM TUNER" will appear on the LCD.

Select a band

Press the [**BAND**] button to change between three SAT bands (SAT1, SAT2 and SAT3). Each band stores up to six preset stations.

Selecting a station

Press the [**▶▶I**] or [**I◀◀**] tuning button to tune to another station.

Preset mode

Six numbered preset buttons store and recall stations for each band.

Preset scan

Short press the [**PS/AS**] button to start category scaning.
Long press the [**PS/AS**] button to start preset station scaning for 10 seconds each.

Storing a station

1. Select a band (if needed), then select a station.
2. Press and hold a preset button (numbers 1–6) on the front panel.
3. The preset number and station is displayed and highlighted.

Recalling a station

1. Select a band (if needed).
2. Press a front panel preset button (numbers 1–6) to select the corresponding stored station.

Channel search

To access Channel Search mode, press the [**MENU**] button on the front panel.

1. Rotate the [**VOLUME**] knob on the front panel to select the desired channel, and press the knob to confirm the selection.
2. Rotate the [**VOLUME**] knob on the panel or press the up/down arrow buttons on the remote control to select the channel name, and press the knob to confirm the selection.

Category search

To access Category Search mode, press the [**MENU**] button on the front panel.

1. Rotate the [**VOLUME**] knob on the panel to select the desired category, and press the knob to confirm the selection.
2. The list of available categories appears on the screen. Rotate the [**VOLUME**] knob on the panel or press the up/down arrow buttons on the remote control to select and press the knob to confirm.
3. The list of stations in the selected category appears on the screen. Rotate the [**VOLUME**] knob on the panel or press the up/down arrow buttons on the remote control to select the category name, and press the knob to confirm the selection.

Direct search

To access Direct Search mode, press the [**MENU**] button on the front panel.

1. Rotate the [**VOLUME**] knob on the panel to select the desired direct, and press the knob to confirm the selection.
2. Rotate the [**VOLUME**] knob on the panel or press the up/down arrow buttons on the remote control to select the direct name, and press the knob to confirm the selection.

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HD Radio Operations

About HD Radio™ technology

HD Radio technology allows CD-quality digital broadcasting of your local AM and FM radio stations. HD Radio broadcasts can include multiple channels on the same frequency, which is called multicasting. With multicasting, you can receive up to eight additional multicast channels: HD1–HD8.
With an HD Radio tuner connected, you will receive HD Radio digital broadcasts automatically when tuned to a station that offers HD Radio technology.

NOTE: Not all FM or AM stations offer HD Radio (digital) broadcasting. You can receive both analog and digital stations with the unit.

Accessing radio mode

Press the [**SRC**] button on the front panel or remote control to switch to the RADIO source, and HD icom will light when a THD300 is connected.

Select a band

Press the [**BAND**] button to change between three FM and one AM bands. Each band stores up to six preset stations.

Tuning

- Seek Tuning
Press and hold the [▶▶I] or [I◀◀] button to seek the next/previous station automatically.
- Manual Tuning
Press the [▶▶I] or [I◀◀] button to move the radio frequency number up or down one step.

HD radio multicast channels

To tune to an HD Radio multicast channel, tune to the main signal and then press the [**MENU**] button on the front panel. PTY is displayed. Select PTY or SUB CH by rotating the [**VOLUME**] knob and press to confirm.

- Select PTY type from the category list by rotating the [**VOLUME**] knob and press it.
- Select SUB CH by rotating the [**VOLUME**] knob and press it.
- Multi channel is available when a digital signal is detected, the DIGITAL icon will light. If the digital signal becomes unavailable, the unit will revert to Analog reception.

Preset stations

Up to six stations on each band can be stored as presets, which can then be instantly recalled by pressing the associated preset button. To store a station, turn the radio on and select the desired band and station. Press and hold the desired preset button (numbered one through six on the face of the radio or remote control) for more than two seconds. When stored, the preset number will appear in the display. The station is now stored and can be recalled by pressing the corresponding preset button. Repeat for the remaining five presets on the current band and for presets on the other four bands.

NOTE: Multicast stations can be stored as presets, but the unit must be in Digital or Auto reception mode to receive them.

Preset scan

Press the [**PS/AS**] button to scan and play all preset stations for 10 seconds each. Press the [**PS/AS**] button again to stop scanning and play the current station.

Automatic store (AS)

Press and hold the [**PS/AS**] button to select six strong stations and store them in the current band using the auto store function. After entering the stations into memory, the unit will automatically stop at each station for five seconds, allowing you to preview each selection. When using the auto store function, the new stations replace any stations already stored in preset memory.

NOTE:
You can stop the auto store function at any time by pressing the [**PS/AS**] button again.

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iTunes® Tagging

The CZ500 offers iTunes® Tagging, which allows the user to "Tag" songs playing on HD Radio™ stations for purchase later through iTunes. When you press the [**ISR**] button, the unit stores the title and artist song information that can then be transferred to your iPod when connected to the unit. A list titled "Tagged" will appear in iTunes, allowing you the option to purchase your tagged songs.

Note:
"iTunes® Tagging" function works by connecting THD300 (sold separately).

iPod compatibility

For detailed information on the playable iPod models, see our home page: www.clarion.com

Note:

- iPhones can also be connected to this system and "iPod" appearing in this manual should be referred to as "iPod/iPhone".
- This system will not operate or may operate improperly with unsupported versions.

Tagging music

To begin tagging music, tune to an HD Radio station. The DIGITAL icon at the display must be illuminated, indicating a digital station is being received. TAG icon lights up when Tagging function is ready. Press the [**ISR**] button on the unit. Proper tagging depends very much on good radio reception. If the reception is poor, tagging will be affected. "STORE ##/64" will appear in the display. The song information is saved to the unit memory until an iPod is connected. You can tag up to 64 songs before the tags must be transferred to an iPod or deleted. When the Tag memory reaches capacity (64 tags) the bottom of the screen displays "MEMO FULL".

Table 5: TAG Messages

Tag Message	Reason
STORE ##/64	If the Tags data is ready, and the [**ISR**] button is pressed
SENDING ##	Tags data is sending to iPod
MEMO FULL	Tag storage is full
DEFFICIENT	Tag data is not available
IPOD FULL	iPod memory is full
NOT SUPPORT	An iPod without Tagging function is connected and the [**ISR**] button is pressed

Note:
Tags saved to your iPod can be managed using the iTunes software, available at www.apple.com/itunes.

Downloading tags to your iPod

To download tags to your iPod, plug an iPod into the unit. All existing tags are automatically transferred to the iPod and deleted from the head unit's memory. If an iPod is connected when a song is tagged, the Tag will be immediately transferred to the iPod.

Note:
When transferring Tags to an iPod, the unit must remain in Radio mode. To purchase tagged songs, you must sync your iPod to iTunes and then click the "Tagged" list on the left side of the iTunes software screen. Click the "View" button for purchasing information.

Note:

1. How to enter the iTunes tagging function?
   "TAG" and "DIGITAL" light up when Tagging function is ready, press the [**ISR**] button to start iTunes Tagging.
2. What is seen on the radio's display to let me know I have tagged the tune?
   Press the [**ISR**] button to show "STORINGTAG". After connect to a iPod, the display shows "SENDING 01".
   If no connection with iPod, the display will show "STORE ##/64". You could save 64 Tag into E2PROM in total. When you connect to a iPod, Tag information will be saved in the iPod, and the data in E2PROM will be cleared.
3. Then how do I get the tagged tune from my iPod to the computer?
   If you have install iTunes, connect your iPod to your computer and buy songs online.

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CD/MP3/WMA Operations

This unit can play back MP3/ WMA files

Note:
If you play a file with DRM (Digital Rights Management) for WMA remaining ON, no audio is output (The WMA indicator blinks).

To disable DRM (Digital Rights Management)

When using Windows Media Player 9/10/11, click on Tool → Options → Copy Music tab, then under Rip settings, uncheck the Copy Protect Music box. Then recreate the files. When you disable DRM, you do so at your own responsibility.

Precautions when creating MP3/ WMA file

Usable sampling rates and bit rates
1. MP3: Sampling rate 8 kHz-48 kHz, Bit rate 8 kbps-320 kbps/VBR
2. WMA: Bit rate 8 kbps-320 kbps

File extensions
1. Always add a file extension ".MP3" or ".WMA" to MP3, WMA file by using single byte letters. If you add a file extension other than specified or forget to add the file extension, the file cannot be played.
2. Files without MP3/WMA data will not play. The files will be played soundlessly if you attempt to play files without MP3/WMA data.
   * When VBR files are played, the play time on the display may differ from the actual play location.
   * When MP3/WMA files are played, there is silence between tunes.

Logical format (File system)
1. When writing MP3/WMA files on a CD-R disc or CD-RW disc, please select ISO 9660 level 1 or 2, Joliet, Romeo or Apple ISO as the writing software format. Normal play may not be possible if the disc is recorded in another format.
2. The folder name and file name can be displayed as the title during MP3/WMA play but the title must be within 64 single byte alphabetical letters and numerals (including an extension).
3. Do not affix a name to a file inside a folder having the same name.

Folder structure
A disc with a folder having more than eight hierarchical levels cannot be used.

Number of files or folders
1. Up to 999 files can be recognized per folder.
   Up to 3000 files can be played.
2. Tracks are played in the order that they were recorded onto a disc. (Tracks might not always be played in the order displayed on the PC.)
3. Some noise may occur depending on the type of encoder software used while recording.

Backup eject function

Just pressing the [⏏] button, ejects the disc even if the power to the unit is not turned on.

Notes:
- Forcing a CD into the disc slot before auto reloading can damage the CD.
- If a CD (12 cm) is left in the ejected position for 15 seconds, the CD is automatically reloaded (Auto reload).

Listening to a disc already loaded in the unit

Press the [**SRC**] button to select the CD/MP3/ WMA mode.
When the unit enters the CD/MP3/WMA mode, play starts automatically.

Loading a CD

Insert a CD into the center of the disc slot with the labeled side facing up. The CD plays automatically after loading.

Notes:
- Never insert foreign objects into the disc slot.
- If the CD is not inserted easily, there may be another CD in the mechanism or the unit may require service.
- Discs not bearing the COMPACT DIGITAL AUDIO or COMPACT DIGITAL VIDEO mark and CD-ROMs cannot be played by this unit.

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CD/MP3/WMA Operations

- Some CDs recorded in CD-R/CD-RW mode may not be usable.

Pausing play

1. Press the [**4** / ▶II] button to pause play. "PAUSE" appears in the display.
2. To resume CD play, press the [**4** / ▶II] button again.

Displaying CD titles

You can press the [**D**] button to change the title display ON or OFF.
When the SCROLL function is ON, the unit can display title data for MP3/WMA disc.

MP3/WMA disc
FILE → FOLDER → TITLE/ALBUM → ARTIST → FILE →

Notes:
- If the CD playing is not a CD-text CD or no user title has been input, "NO TITLE" appears in the display.
- If MP3/WMA disc is not input TAG, "NO TITLE" appears in the display.
- Only ASCII characters can be displayed in Tags.

Selecting a track

Track-up
1. Press the [▶▶I] button to move ahead to the beginning of the next track.
2. Each time you press the [▶▶I] button, the track advances ahead to the beginning of the next track.
3. Press and hold the [**6**] button to move ahead 10 tracks.

Track-down
1. Press the [I◀◀] button to move back to the beginning of the current track.
2. Press the [I◀◀] button twice to move back to the beginning of the previous track.
3. Press and hold the [**5**] button to move back 10 tracks.

Fast-forward/Fast-reverse

Fast-forward
Press and hold the [▶▶I] button.
Fast-reverse
Press and hold the [I◀◀] button.
* For MP3/WMA discs, it takes some time until the start of searching and between tracks. In addition, the playing time may have a margin of error.

Folder select

This function allows you to select a folder containing MP3/WMA files and start playing from the first track in the folder.
1. Press the [**5**] or [**6**] button.
   Press the [**6**] button to move the next folder. Press the [**5**] button to move the previous folder.
2. To select a track, press the [I◀◀] or [▶▶I] button.

Top function

The top function resets the CD player to the first track of the disc. Press and hold the [**TOP**] button on the front panel or press the [**TOP**] button on the remote control to play the first track (track No. 1) on the disc.
* In case of MP3/WMA, the first track of a folder being played will be returned.

Other various play functions

Scan play
This function allows you to locate and play the first 10 seconds of all the tracks recorded on a disc.
Press the [**SCN**] button to perform scan play.
Repeat play
This function allows you to repeat playback of a track.
1. Press the [**RPT**] button once or more until "TRK RPT" appears on the LCD to perform repeat play.
2. Press the [**RPT**] button repeatedly until "FOLD RPT" appears on the LCD for folder repeat play.
3. Press the [**RPT**] button repeatedly until "RPT OFF" appears on the LCD to cancel repeat playback.

Random play
This function allows you to play all tracks recorded on a disc in a random order.
Press the [**RDM**] button to perform random play.
Random play starts with the next played track when Random function is on.

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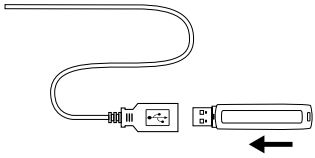
USB Operations

1. Insert a USB device into the USB connector.
   When connecting a USB device, the unit will read the files automatically.
2. To remove the USB device, you should first select another source, in order to avoid damaging the USB device. Then remove the USB device.



iPod & iPhone Operations

Connect

Connect an iPod or iPhone to the USB using a USB cable.
When connecting a device, the unit will read the files automatically. The track information displays on the screen once playback starts.

MENU

Press the [**MENU**] button repeatedly to show PLAY LISTS, rotate the knob to show PLAY LISTS / ARTISTS / ALBUMS / GENRES / SONGS / COMPOSERS, press and rotate the knob to select a desired option, then press the knob to confirm.

Repeat play

This function allows you to play the current track repeatedly or play all tracks in your iPod/ iPhone repeatedly.

1. Press the [**RPT**] button once or more until "TRK RPT" appears on the LCD to perform repeat play.
2. Press the [**RPT**] button repeatedly until "ALL RPT" appears on the LCD for all tracks repeat play.
3. Press the [**RPT**] button repeatedly until "RPT OFF" appears on the LCD to cancel repeat playback.

Random play

This function allows you to play all tracks recorded on a disc in a random order.

1. Press the [**RDM**] button repeatedly until "RDM ALBUM" appears on the LCD for album random play.
2. Press the [**RDM**] button once or more until "RDM SONG" appears on the LCD to perform random play.
3. Press the [**RDM**] button repeatedly until "RDM OFF" appears on the LCD to cancel random playback.

AUX Operations

Press the [**SRC**] button on the panel or remote control to select AUX.
AUX is just for Audio content with 3.5 mm Jack connector plugged into audio-in socket on the front panel.

AUX input sensitivity setting

1. Press and hold the [**D**] button.
2. Press the [⏮ , ⏭] button to select "AUX SENS".
3. If the output level of connected external audio player is "High", rotate [**VOL/SEL**] knob and choose "AUX LOW". And if the output level is "Low", choose "AUX HIGH".

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Bluetooth Operations

Bluetooth allows you to utilize your car's built-in audio system for wireless mobile phone or music handsfree communication. Some Bluetooth mobile phones have the audio features, and some portable audio players support Bluetooth. This system can play audio data stored in a Bluetooth audio device. A car stereo with Bluetooth installed will be able to retrieve phonebook contacts, received calls, dialed calls, missed calls, incoming calls, outgoing calls and listen to music.

Notes:

- Do not place the Bluetooth handsfree microphone where it will be directly affected by blowing air such as in front of air conditioning vents. This may cause a malfunction.
- Leaving it exposed to high temperatures or direct sunlight can cause distortion or discoloration which may result in a malfunction.
- This system will not operate or may operate improperly with some Bluetooth audio players.
- Clarion cannot guarantee the compatibility of all mobile phones together with CZ500.
- Audio playback will be set to the same volume level as set during telephone calls. This might cause problems, if extreme volume level is set during a telephone call.

Handsfree Operations

Pairing

1. Turn on Bluetooth function of your mobile phone.
2. Enter the mobile phone's Bluetooth setup menu.
3. Search for new Buetooth devices.
4. Select CZ500 from the pairing list on the mobile phone.
5. Enter "0000" as the password.
6. After pairing successfully, the unit will enter Bluetooth mode automatically, and "BLUETOOTH CONNECTED" will appear on the LCD.

Make a call

Direct Number Call
Press the [ ] and [**MENU**] button to select DIAL NUM.

1. Press the [ ] or [**MENU**] button.
2. Press the [**VOLUME**] knob on the front panel or press the [▼] / [▲] button on the remote control to switch: DIALLED CALL/MISSED CALL/RECEIVED CALL/MEMORY PHONEBOOK/SIM PHONEBOOK
3. Press the [**VOLUME**] knob to confirm the selection, "WAITING" will appear on the LCD.
4. Press the [ ] to dial.
5. Press [ ] to terminate call.

Operation from Bluetooth menu
Press the [**SRC**] button to switch the source to "BLUETOOTH MUSIC". Press the [**MENU**] button to select a way to make outgoing call:

• Dial Number
Same operation as "Direct Number Call".

• Dialled/Missed/Received Call History
You can search any Dialled/Missed/Received Call History.

1. Rotate the knob to select "DIALLED", "MISSED" or "RECEIVED".
2. Press the [**VOLUME**] knob to enter the selected call history.
3. Use the [▼] / [▲] buttons on the remote control or rotate the [**VOLUME**] knob to scroll the contacts.
4. When the contact name or mobile phone No. is displayed, press the [ ] button to call the mobile phone No. of that contact.
   * Press the [ ] button to end the call.

• Call from Phonebook
User can search the contact name in the phonebook and make call.

1. Rotate the knob to select "SIM PHONE BOOK", "MEMORY PHONE BOOK" or "TETEPHONE BOOK" .
2. Press the [**VOLUME**] knob to enter the selected phonebook.
3. Use the [▼] / [▲] buttons on the remote control or rotate the [**VOLUME**] knob to scroll the contacts.
4. When the contact name is displayed, press the [ ] button to call the mobile phone No. of that contact.
   * Press the [ ] button to end the call.

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Bluetooth Operations

• Answering a call

You can answer an incoming call by pressing the [ ] button.

* Press the [ ] button to reject an incoming call.

Audio Streaming Operations

What is audio streaming?

Audio streaming is a technique for transferring audio data such that it can be processed as a steady and continuous stream. Users can stream music from their external audio player to their car stereo wirelessly and listen to the tracks through the car's speakers. Please consult your nearest Clarion dealer for more information on wireless audio streaming transmitter products offered.

⚠ CAUTION

Please avoid operating your connected mobile phone while audio streaming as this may cause noise or sound choppy during the song playback.
Audio streaming may or may not resume after telephone interrupt as this is dependent on mobile phone.
System will always return to Radio mode if audio streaming is disconnected.

Note:

Be sure to read the section "Pairing" before proceeding.

Play/Pause a track

1. Press the [**4** / ⏯] button to pause audio playback.
2. To resume audio playback, push the [**4** / ⏯] button again.

Selecting a track

Track-up

1. Press the [⏭] button to move to the beginning of the next track.
2. Each time the [⏭] button is pressed, playback proceeds to another track in the advancing direction.

Track-down

1. Press the [⏮] button to move to the beginning of the previous track.
2. Each time the [⏮] button is pressed, playback proceeds to previous track in the reverse direction.

Notes:

Playing order will depend on the Bluetooth audio player. When the [⏮] button is pressed, some A2DP devices will restart the current track depends on the duration of playback.
During music streaming playback, "A2DP" will be shown on the display. Information about tracks (e.g. the elapsed playtime, song title, etc.) cannot be displayed on this unit.
When A2DP device is disconnected, "BT DISCONNECT" will be shown on the display and return to previously selected audio source. Some Bluetooth audio players may not have play/pause synchronized with this unit. Please make sure both device and main unit are in the same play/pause status in BT MUSIC mode.

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Audio Setup

Press the [**SOUND**] button to enter sound effect setting mode. First press shows current EQ. Rotate the [**VOLUME**] knob to change the options in the following order: OFF → B-BOOST → IMPACT → EXCITE → CUSTOM

Press the [**SOUND**] button, then press [⏮, ⏭] to select USER preset including: BALANCE → FADER → M-B EX → LPF(low pass filter) → SUBW VOL, rotate the [**VOLUME**] knob to select a value.

BALANCE: LEFT 1-7→ CENTER → RIGHT 1-7
FADER: LEFT 1-7→ CENTER → RIGHT 1-7
M-BEX: ON/OFF
LPF: THROUGH/80/120/160
SUBW VOL: (-6) - (+6)

System Setup

Press and hold the [**D**] button to enter system MENU. Press [⏮, ⏭] to select options, rotate the [**VOLUME**] knob to adjust.

CLOCK
Press the knob to enter clock setting mode. Rotate the knob to set clock, press [⏮] or [⏭] to select hour or minute, press and hold the knob to confirm.

DX/LO
Rotate the knob to choose radio local or distant.
LO: Only stations with strong signal can be received.
DX: Stations with strong and weak signals can be received.

AUX SENS
While in AUX mode, rotate the knob to choose AUX Input sensitivity LOW, MID or HIGH.

SCRN SVR: ON/OFF
Rotate the knob to choose screen saver on or off.

SCROLL: ON/OFF
For track information that is longer than the display panel:
When SCROLL is ON, the LCD will display ID3 TAG information cyclely, e.g: TRACK → FOLDER → FILE → ALBUM → TITLE → ARTIST → TRACK → ...
When SCROLL is OFF, the LCD will display one of the ID3 TAG information, the default is TRACK, but user can adjust it to other ID3 TAG information by pressing the [**DISP**] button.

DIMMER: ON/OFF
Rotate the knob to choose dimmer on or off.
ON: The LCD is dimmed when the interior light is on.
OFF: The LCD stays at maximum brightness.

BEEP: ON/OFF
Rotate the knob to choose button beep sound on or off.

12/24H
Rotate the knob to choose time format: 12 or 24 hour.

BT menu

While in BT mode, press and hold the [**D**] button to enter BT MENU. Press [⏮, ⏭] to select options, rotate the [**VOLUME**] knob to adjust.

AUTO CON
Rotate the knob to choose connect automatically or not.

PIN CODE
Rotate and press the knob to choose a 4-digit password. Press the knob more than two seconds to confirm.

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6. TROUBLESHOOTING

General

Problem	Cause	Measure
Unit does not turn on.	Unit fuse blown.	Install new fuse with correct rating.
	Car battery fuse blown.	Install new fuse with correct rating.
Unit does not turn on. Nothing happens when buttons are pressed. Display is not accurate.	Illegal operation.	Turn off the power and open the operation panel. Press the Reset button with a thin rod. ***Note:*** When the Reset button is pressed, turn off the ACC power.* *When the Reset button is pressed, frequencies of radio stations, titles, etc. stored in memory are cleared.
Remote control does not work.	Battery depleted.	Change the battery.
	Battery installed incorrectly.	Install the battery correctly.
No/low audio output.	Improper audio output connection.	Check wiring and correct.
	Volume set too low.	Increase volume level.
	Speakers damaged.	Replace speakers.
	Heavily biased volume balance.	Adjust the channel balance to center position.
	Speaker wiring is in contact with metal part of car.	Insulate all speaker wiring connections.
Poor sound quality or distortion.	Non-standard disc used.	Use a standard disc.
	Speaker power rating does not match unit.	Replace speakers.
	Wrong connections.	Check wiring and correct.
	Speaker is shorted.	Check wiring and correct.
Unit resets itself when engine is off.	Incorrect connection between ACC and battery.	Check wiring and correct.

DISC player

Problem	Cause	Measure
Disc cannot be loaded.	Another disc is already loaded.	Eject the disc before loading the new one.
	There is a foreign object already in place.	Eject the foreign object forcibly.
Sound skips or is noisy.	Compact disc is dirty.	Clean the compact disc with a soft cloth.
	Compact disc is heavily scratched or warped.	Replace with a compact disc with no scratches.
Sound is bad directly after power is turned on.	Water droplets may form on the internal lens when the car is parked in a humid place.	Let dry for about one hour with the power on.

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USB devices

Problem	Cause	Measure
USB device cannot be inserted.	The USB device has been inserted with wrong direction.	Reversing the connection direction of the USB device, try it again.
	The USB connector is broken.	Replace with a new USB device.
USB device is not recognized.	The USB device is damaged.	Disconnect the USB device and reconnect. If the device is still not recognized, try replacing with a different USB device.
	Connectors are loose.	
No sound heard with the display "**No File**" shown.	No MP3/WMA file is stored in the USB device.	Store these files properly in the USB device.
Sound skips or is noisy.	MP3/WMA files are not encoded properly.	Use MP3/WMA files encoded properly.

Bluetooth

Problem	Cause	Measure
Cannot pair the Bluetooth enabled device with the car audio system.	The device does not support the profiles required for the system.	Use another device to connect.
	The Bluetooth function of the device is not enabled.	Refer to the user manual of the device for how to enable the function.
The audio quality is poor after connection with a Bluetooth-enabled device.	The microphone is not correctly positioned.	Adjust the position of the microphone. For example, stick the microphone onto the dashboard close to the driver.
	The Bluetooth reception is poor.	Move the device closer to the car audio system or remove any obstacle between the device and the system.

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7. ERROR DISPLAY

If an error occurs, one of the following errors is displayed.
Take the measures described below to solve the problem.

Display	Cause	Measure
ERROR	Disc is inserted incorrectly.	Eject the disc then reload it properly.
	The disc format is not supported.	Try another disc.
	This is a failure of deck's mechanism.	Consult your store of purchase.

If an error display other than the ones described above appears, press the Reset button. If the problem persists, turn off the power and consult your store of purchase.

* When the Reset button is pressed, frequencies of radio stations, titles, etc. stored in memory are cleared.

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8. SPECIFICATIONS

FM tuner

Frequency range: 87.9-107.9 MHz
Usable sensitivity: 8 dBμ
Frequency response: 30 Hz-15 kHz
Stereo separation: 30 dB (1 kHz)
Signal/noise ratio: >55 dB

AM tuner

Frequency range: 530-1710 kHz
Usable sensitivity (S/N=20 dB): 30 dBμ

CD

System: Disc digital audio system
Frequency response: 20 Hz-20 kHz
Signal/noise ratio: >80 dB
Total harmonic distortion: Less than 0.1% (1 kHz)
Channel separation: >60 dB

MP3/WMA mode

MP3 sampling rate: 8 kHz to 48 kHz
MP3 bit rate: 8 kbps to 320 kbps / VBR
WMA bit rate: 8 kbps to 320 kbps
Logical format: ISO 9660 level 1, 2
Joliet or Romeo file system

USB

Specification: USB 1.0/2.0
Playable audio format:
MP3 (.mp3): MPEG 1/2/Audio Layer-3
WMA (.wma): Ver 7/8/9.1/9.2

Bluetooth

Specification: Bluetooth Ver. 2.0
Profile: HSP (Headset Profile)
OPP (Object Push Profile)
A2DP (Advanced Audio Distribution Profile)
AVRCP (AV Remote Control Profile)
Send/Receive Sensitivity: Class 2

Audio amplifier

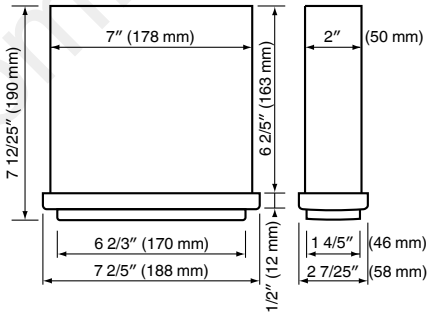
Maximum power output:
200 W (50 W × 4)
Speaker impedance: 4 Ω (4 to 8 Ω allowable)

Input

Audio input sensitivity:
High: 320 mV (at 2 V output)
Mid: 650 mV (at 2 V output)
Low: 1.3 V (at 2 V output)
(input impedance 10 kΩ or greater)
Aux-in level: ≤2 V

General

Power supply voltage:
14.4 VDC (10.8 to 15.6 V allowable), negative ground
Pre-Amp output voltage:
4.0 V (CD play mode: 1 kHz, 0 dB, 10 kΩ load)
Fuse: 15 A
Dimensions of the main unit (W × H × D):
7 2/5 × 2 7/25 × 7 12/25 in.
(188 × 58 × 190 mm)
Weight of the main unit: 3.2 lb. (1.44 kg)
Dimensions of the remote control unit (W × H × D):
1 2/3 × 2/5 × 4 2/5 in.
(43 × 11 × 113 mm)
Weight of the remote control unit:
1.16 oz. (36 g) (including battery)



Notes:

- Specifications comply with JEITA Standards.
- Specifications and design are subject to change without notice for further improvement.

Power output:
19 W × 4 Channels RMS
(4 Ω at 14.4 V≤1% THD+N)

Signal to noise ratio:
80 dBA (reference: 1 W into 4 Ω)

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9. INSTALLATION/WIRE CONNECTION GUIDE

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1) Before Starting

1. This set is exclusively for use in cars with a negative ground 12 V power supply.
2. Read these instructions carefully.
3. Be sure to disconnect the battery terminal before starting. This is to prevent short circuits during installation. (Figure 1)

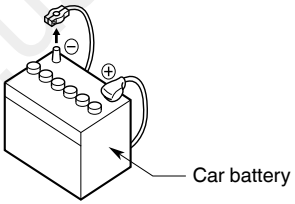

Figure 1

2) Package Contents

Source unit 1
Front panel 1
Trim ring 1
Mounting bracket 1
Screw M5x6 mm 4
L-key 2
Wire connector 1
Remote control unit (with battery) 1
Owner's manual 1
Warranty card 1
Microphone 1
DCP case 1

3) General Cautions

1. Do not open the case. There are no user- serviceable parts inside. If you drop anything into the unit during installation, consult your dealer or an authorized Clarion service center.
2. Use a soft, dry cloth to clean the case. Never use a rough cloth, thinner, benzine, or alcohol. For tough dirt, apply a little cold or warm water to a soft cloth and wipe off the dirt gently.

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4) Cautions on Installation

1. Prepare all articles necessary for installing the source unit before starting.
2. Install the unit within 30° of horizontal. (Figure 2)
3. If you have to do any work on the car body, such as drilling holes, consult your car dealer beforehand.
4. Use the enclosed screws for installation. Using other screws can cause damage. (Figure 3)

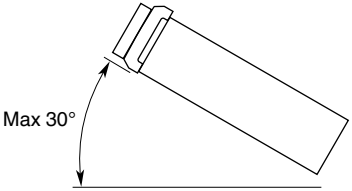


Figure 2

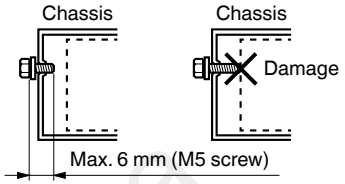


Figure 3

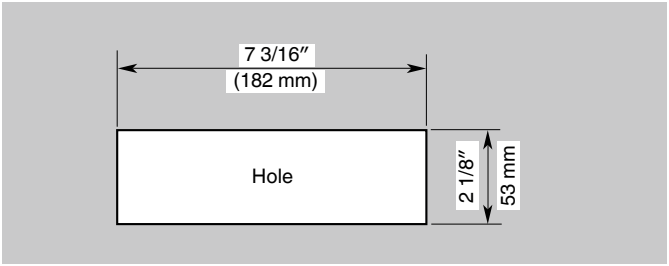
5) Installing the Source Unit

1. Place the mounting bracket into the instrument panel, use a screwdriver to bend each stopper of the universal mounting bracket inward, then secure the stopper.
2. Wire as shown in Section 7.
3. Insert the source unit into the mounting bracket until it locks.
4. Carefully adjust all mounting tabs on the mounting bracket and confirm that the mounting tabs are securely attached.

Notes:

1. Some car models require special mounting kits for proper installation. Consult your Clarion dealer for details.
2. Fasten the front stopper securely to prevent the source unit from coming loose.

- **Console opening dimensions**



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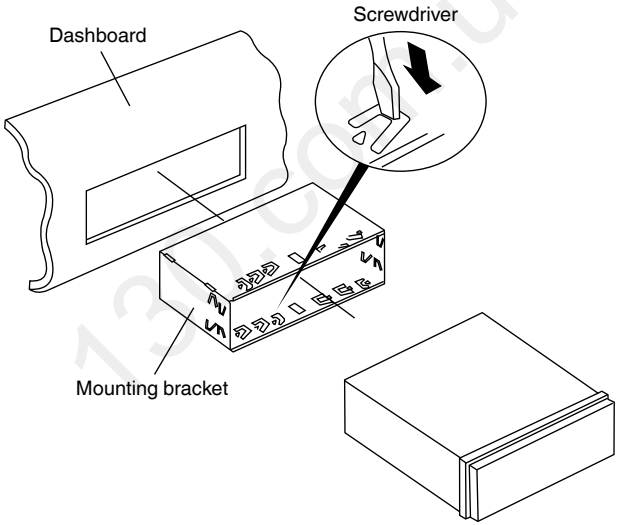
Notes on installation

1. Before installation, please make sure that all connections have been properly made and the unit operates normally. Improper connection may result in damage to the unit.
2. Use only accessories designed and manufactured for this unit. The use of other unauthorized accessories may result in damage to the unit.
3. Before installation, please fasten all power cables.
4. DO NOT install the unit where it will be exposed to heat to prevent damage to electrical components such as the laser head.
5. Install the unit horizontally. Installing the unit more than 30 degree vertically may result in degraded performance.
6. To prevent electric spark, connect the positive pole first and then the negative pole.
7. DO NOT block the cooling fan exit to ensure sufficient heating dissipation of this unit, or it may result in damage to this unit.

Unit installation

Method A

1. Insert mounting bracket into dash board, choose appropriate mounting tab according to the gap width, bending the mounting tab outwards with a screwdriver to fix the mounting bracket in place.
2. Slide the unit into the bracket until you hear a click sound.



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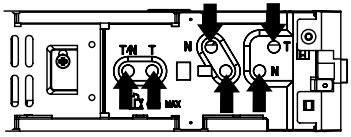
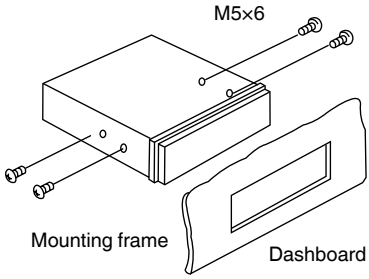
Method B

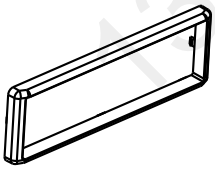




1. Insert this unit directly to the opening of the dashboard.
2. Place M5×6 cylindrical screw through the holes of the mounting frame located inside the opening to holes of the unit and fasten the screws to left & right.

Trim ring installation

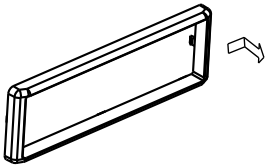
Attach the trim ring around the front panel.



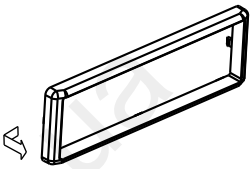
6) Removing the Source Unit

Disassemble trim ring

1. Push the trim ring upward and pull out the upper part.

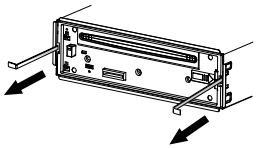


2. Push the trim ring downward and pull out the lower part.



Disassemble the unit

1. Switch off the power.
2. Remove the panel.
3. Remove the trim ring.
4. Insert the removal keys straight back until they lock, then pull the unit out.



5. Disconnect all the wires.

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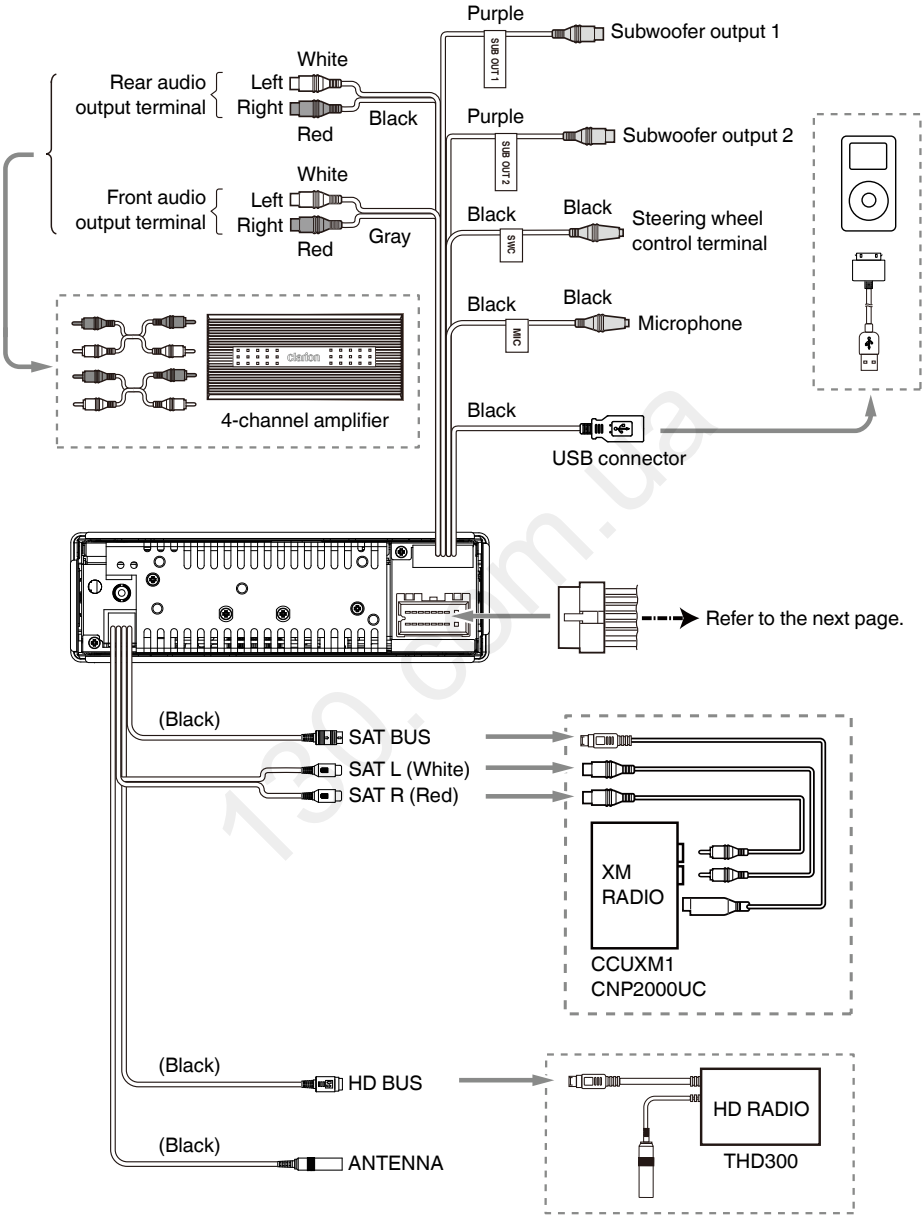
7) Wiring and Connections



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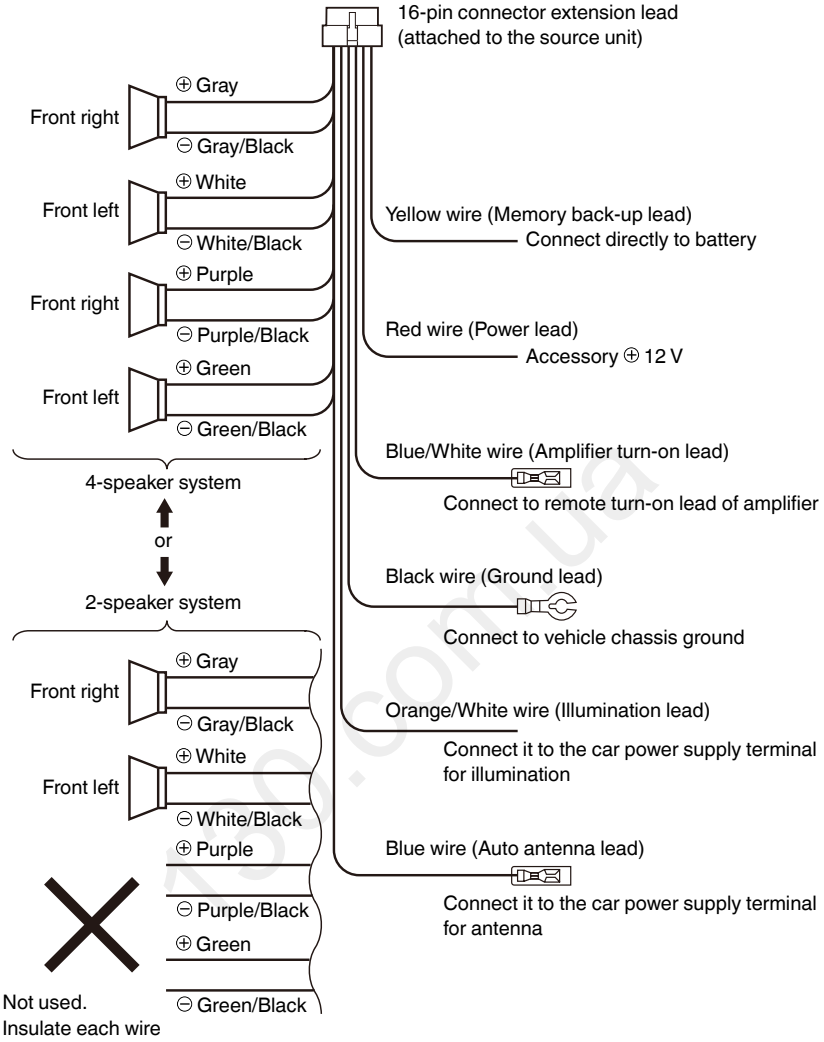

8) Connecting the Accessories

- **Connecting to the external amplifier**
  External amplifiers can be connected to the 4 channel RCA output connections. Ensure that the connectors are not grounded or shorted to prevent damage to the unit.

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